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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/648,531	08/25/2003	Stuart Cain	200310063-1	4467
22879 7590 08/21/2007 HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD			EXAMINER	
			ALMEIDA, DEVIN E	
	INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400		ART UNIT	PAPER NUMBER
			2132	.
			. MAIL DATE	DELIVERY MODE
			08/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/648,531	CAIN, STUART			
Office Action Summary	Examiner	Art Unit			
•	Devin Almeida	2132			
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RI	EDI V IS SET TO EXPIRE 3 M	IONTH(S) OR THIRTY (30) DAYS			
WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 Cf after SIX (6) MONTHS from the mailing date of this communicatio - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNION (FR 1.136(a). In no event, however, may a note in the first state of the state of th	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 2	26 February 2007.				
2a) ☐ This action is FINAL . 2b) ☑	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for all	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice und	der <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-20</u> is/are pending in the applica	ation.				
4a) Of the above claim(s) is/are with	ndrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-20</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction a	nd/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exa	miner.	·			
10) The drawing(s) filed on is/are: a)					
Applicant may not request that any objection to	o the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the co	· •	• • •			
11)☐ The oath or declaration is objected to by th	ie Examiner. Note the attached	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119	F - 1				
12) ☐ Acknowledgment is made of a claim for for a) ☐ All b) ☐ Some * c) ☐ None of:	reign priority under 35 U.S.C. {	§ 119(a)-(d) or (f).			
1. Certified copies of the priority docur	ments have been received.				
2. Certified copies of the priority docur					
3. Copies of the certified copies of the		received in this National Stage			
application from the International Bu	, , , ,				
* See the attached detailed Office action for a	a list of the centiled copies not	received.			
Attachment(s)	C	(DTO 446)			
 Mi Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413) s)/Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of I	nformal Patent Application			
Paper No(s)/Mail Date	6) 🔲 Other:	_ ·			

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DETAILED ACTION

This action is in response to the papers filed 2/26/2007. Claims 1-20 were received for consideration.

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1-7, 9, 10, 12-16, 19 and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Fox et al (U.S. 6,535,227). Fox teaches everything with respect to claim 1, a security indication spanning tree method comprising: determining asset value of a network node (see abstract and column 3 lines 34-59); ascertaining exposure rating of said network node (see abstract and column 3 lines 34-59); establishing a functional priority risk indicator for indicating the likelihood of an attack from another network node (see abstract and column 3 lines 34-59); and creating a spanning tree schematic of a

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network including said network node, wherein said spanning tree schematic includes an indication of said asset value (see abstract and figure 7, 9 and 10).

With respect to claim 2, wherein said spanning tree schematic includes an indication of said exposure rating (see abstract and figure 7, 9 and 10).

With respect to claim 3, wherein said spanning tree schematic includes an indication of said attack risk (see column 1 lines 31-58).

With respect to claim 4, wherein said asset value provides an indication of an economic value of functions provided by said network node (see column 1 lines 31-58).

With respect to claim 5, said asset value corresponds to an economic impact of a disruption to functionality provided by said network node (see column 1 lines 31-58).

With respect to claim 6, a security indication spanning tree method of claim 1 wherein said exposure rating defines a threshold value corresponding to connectivity of the network node with other network nodes (see abstract and figure 7, 9 and 10 and column 9 line 20-25).

With respect to claim 7, wherein said network node is given an exposure rating value based upon a connectivity distance from a root node (see column 9 lines 20-25).

With respect to claim 8, wherein said root node is a node closest to an external network (see figure 1).

With respect to claim 9, wherein said functional priority risk indicator is associated with an economic benefit and utility of functionality said network node provides (see column 1 lines 31-58).

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71/Control Number: 10/040,50

With respect to claim 10, a security indication spanning tree system comprising: a bus for communicating information; a processor coupled to said bus (see column 5 lines 35 –51 it is inherent that a computer has a processor), said processor for processing said information including instructions for building an attack impact susceptibility spanning tree representation including asset value factors (see column 5 lines 35 -51); and a memory coupled to said bus, said memory for storing said information (see column 5 lines 35 –51 it is inherent that a computer has a memory), including instructions for building said attack impact susceptibility spanning tree representation including said asset value factors (see abstract, figure 7, 9 and 10 and column 3 lines 34-59).

With respect to claim 11, wherein said asset risk value is automatically determined (see column 5 lines 35 -51).

With respect to claim 12, further comprising a central console for interfacing with a network application management platform (see Abstract and column 5 lines 35 –51).

With respect to claim 13, wherein said instructions include attack spread risk determination instructions (see column 1 lines 31-58).

With respect to claim 14, wherein said instructions include exposure rating determination directions (see figure 3 and column 5 lines 35 – column 6 lines 51 and column 7 line 28 – column 8 line 6).

With respect to claim 15, a computer usable storage medium having computer readable program code embodied therein for causing a computer system to implement security indication spanning tree instructions comprising: a device examination module

for examining information regarding devices included in a centralized resource network, wherein said examining includes ascertaining what applications said devices support; an importance indication module for obtaining an indication of a relative importance of functionality provided by said device (see column 5 lines 35 –51 and column 7 line 28 – column 8 line 6); and a spanning tree module for building a spanning tree topology representation including said indication of said relative importance of said device in supporting said applications (see abstract, figure 7, 9 and 10 and column 3 lines 34-59).

With respect to claim 16, herein said relative importance of said device is based upon an economic value of functions said devices performs in support of said applications (see column 1 lines 31-58).

With respect to claim 19, further comprising an attack danger assessment module for assessing the danger of an attack from other devices included in said network (see column 1 lines 31-58).

With respect to claim 20, further comprising: deriving an attack danger indication based upon said indication of said relative importance of said device and said connectivity threshold value; and associating said attack danger indication with said device (see column 1 lines 31-58).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fox et al (U.S. 6,535,227) in view of Burrows et al (U.S. 2002/0073338). Fox teaches everything with respect to claim 15 but with respect to claim 17 Fox does not teach further comprising an internal attack permeability module for investigating the permeability of a network in permitting an internal attack on a device from other devices included in the network. 17. Burrows an internal attack permeability module for investigating the permeability of a network in permitting an internal attack on a device from other devices included in the network (see Borrows paragraph 0040-0041). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method of Fox with the method of Burrows to diffuse attack from a first component to a second component in the network in order to mitigate the effects of undesirable behavior on the network, as taught by Burrows (see Burrows paragraph 0028]).

With respect to claim 18 wherein said investigating includes: analyzing the ease of attack on said device from other devices in said centralized resource network; and assigning an connectivity threshold value to said device based upon said analysis of said ease of attack (see Borrows paragraph 0040-0041).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devin Almeida whose telephone number is 571-270-

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1018. The examiner can normally be reached on Monday-Thursday from 7:30 A.M. to

5:00 P.M. The examiner can also be reached on alternate Fridays from 7:30 A.M. to

4:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gilberto Barron, can be reached on 571-272-3799. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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Business Center (EBC) at 866-217-9197 (toll-free).

Devin Almeida Patent Examiner

8/15/2007

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